CIES206EC

6-port Layer 2 100M DIN Rail Industrial EtherCAT Switch

- Support high-speed real-time transmission, provide nanosecond transmission delay, and ensure fast data transmission and synchronization in real-time control systems
- Support flexible topology, such as linear, tree, star and other topologies or combinations
- Support cascading and expansion, each network segment can accommodate up to 65535 slaves
- Comply with EtherCAT conformance test
- Support DC9V~60V or AC24V power input, non-polarity
- High-strength aluminum alloy shell, IP40 protection grade, the equipment can work reliably in -40℃~+75℃ harsh industrial environment

Product Description

CIES206EC is a 6-port 100M rail-mounted EtherCAT industrial Ethernet switch designed and developed by COME-STAR Communication for EtherCAT network applications. It provides 6x100M EtherCAT ports (1 in, 5 out), of which port 1 is used for EtherCAT network input and ports 2-6 are used for EtherCAT network output. The product uses the EtherCAT slave controller to dynamically process data at high speed, a pure hardware mechanism, and real-time data insertion/extraction, providing efficient real-time performance, and providing precise synchronization for EtherCAT slave devices by distributing clocks. Based on Ethernet transmission, it uses standard Ethernet frames, Ethernet interfaces and Ethernet cables, provides full-duplex bandwidth, and adopts a logical ring structure, with more than 90% of available data per frame; it supports a variety of topologies such as linear, tree, and star, and can connect up to 65,535 slave node devices, and supports EtherCAT configuration tool topology management, providing users with great flexibility and scalability. The product is made of carefully selected industrial-grade components, installed with a 35mm standard rail, and has a high-strength aluminum alloy shell. It is sturdy and durable, has a wide operating temperature range of -40℃~+75℃, and a high-standard industrial protection design. It can adapt to various harsh working environments, and has stable communication performance. It can be widely used in industrial automation, equipment control, robot control, measurement and control, building automation, transportation systems and other fields.

Technical Specifications

Interface	
Ether CAT	Protocol standard: EtherCAT Interface type: 6* RJ45 (1 in 5 out), supports auto MDI/MDI-X Transmission rate: 100Mbps Transmission medium: shielded Category 5 cable and above (network cable CAT5 and above) Transmission distance: ≤100m Number of nodes: ≤65535
Status LED	Power indicator, interface indicator

Power Supply	
Input Voltage	DC model: DC9~60V or AC24V, no polarity
Power Consumption	＜2W@DC24V
Connection	3-pin 5.08mm pitch lock terminal block

Physical Characteristics	
Dimensions	102 × 46 × 78 mm (DIN rail mounting clip excluded)
Installations	Standard installation on 35mm DIN rails
IP Code	High-strength aluminum alloy housing, IP40 protection grade
Weight	About 0.35kg

Working Environment	
Operating Temp	-40℃~ +75℃
Storage Temp	-40℃~ +85℃
Relative Humidity	5%~95% (non-condensing)

Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 3

	(Contact discharge ±6kV Air discharge ±8kV)
	IEC 61000-4-5 (Surge): Level 3
	(Power supply: common mode $\pm$4kV, differential mode $\pm$2kV; Electrical port: common mode $\pm$6kV, differential mode $\pm$2kV)
	IEC 61000-4-4 (EFT): Level 3
	(Power supply: common mode $\pm$2kV, electrical port $\pm$1kV)
Certification	CE, FCC, RoHS

Dimensions

Unit: mm
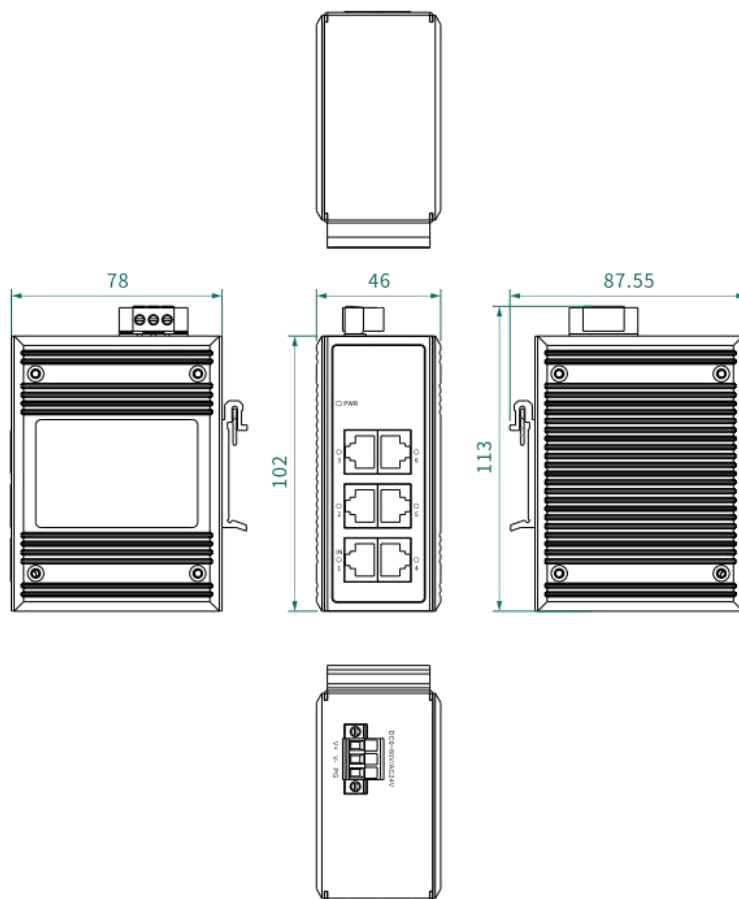
Ordering Information

Standard Model	100M Copper EtherCAT (Input)	100M Copper EtherCAT (Output)	Input Voltage
CIES206EC	1	5	DC9~36V Or AC24V

📞 Contact Us

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